

Electronic effects in the dissociative ionisation of pyrene clusters

Gustavo A. Garcia^a, Léo Dontot^{b,c}, Mathias Rapacioli^c, Fernand Spiegelman^c, Philippe Bréchnignac^d, Laurent Nahon^a and Christine Joblin^b

^aSynchrotron SOLEIL, L'Orme des Merisiers, Départementale 128, 91190 Saint Aubin, France

^bInstitut de Recherche en Astrophysique et Planétologie, Université de Toulouse III – Paul Sabatier, CNRS, CNES, 9 avenue du Colonel Roche, BP 44346, F-31028 Toulouse, France

^cLaboratoire de Chimie et Physique Quantiques, FERMI, Université de Toulouse III – Paul Sabatier, CNRS, 118 Route de Narbonne, F-31062 Toulouse, France

^dInstitut des Sciences Moléculaires d'Orsay, CNRS, Université Paris-Saclay, F-91405 Orsay, France

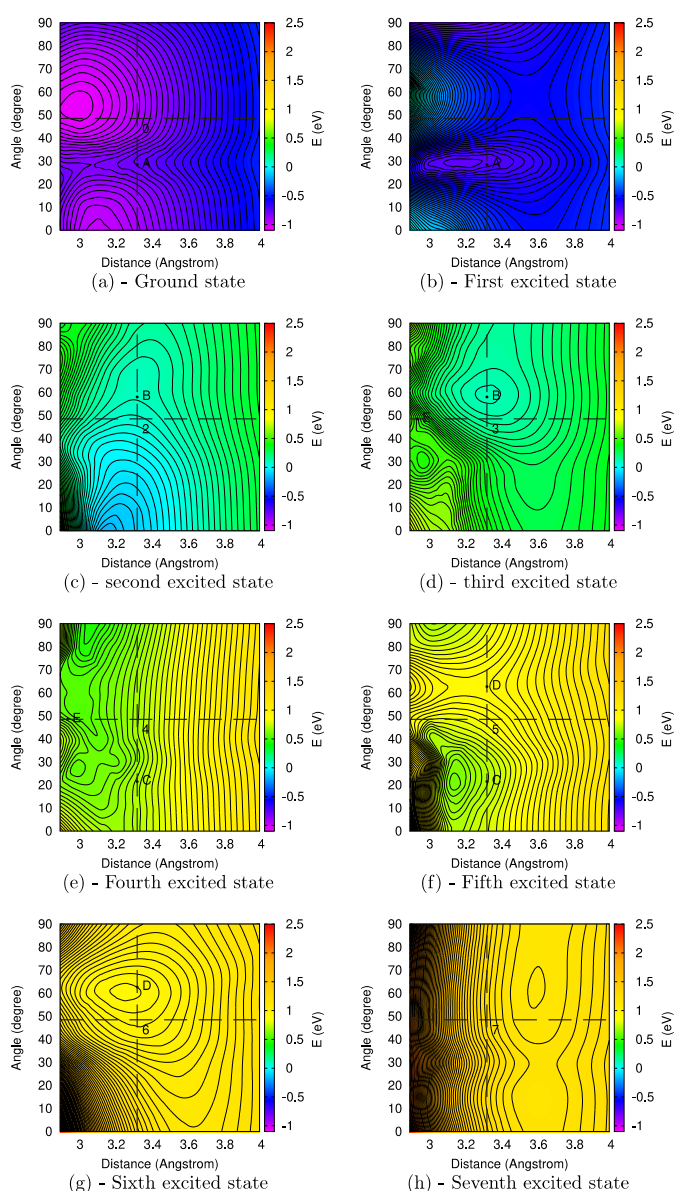


Figure S1: Two-dimensional potential energy surfaces for the ground and first seven electronically excited states of cationic pyrene dimer. The zero of the energy colour scale corresponds to the first dissociation limit $M_2^+ \rightarrow M^+ + M$, with both cationic and neutral monomers in their ground states. The points labelled by numbers and letters are the same as those in the Figure 7 of the main article.